

# DEPARTMENT OF COMPUTER SCIENCE

## MSCS Program Sheet (2009-10)

### Individually Designed Specialization

Name: \_\_\_\_\_ Adviser: \_\_\_\_\_ Date: \_\_\_\_\_  
 Student ID#: \_\_\_\_\_ Email: \_\_\_\_\_ Proposed date for degree conferral: \_\_\_\_\_ HCP? \_\_\_\_\_ Coterm? \_\_\_\_\_

#### GENERAL INSTRUCTIONS

Before the end of your first quarter, you should complete the following steps. Detailed instructions are included in the **Guide to the MSCS Program Sheet** in your orientation packet (an online version is available at [cs.stanford.edu/Degrees/mscs/programsheets/](http://cs.stanford.edu/Degrees/mscs/programsheets/)):

- Complete this program sheet by filling in the number, name and units of each course you intend to use for your degree.
- Attach a course schedule showing the year and quarter in which you intend to take each course in your program sheet.
- Meet with your adviser and secure the necessary signatures on the program sheet and any breadth course waiver forms.
- Submit the originals to the MS Program Administrator, Claire Stager, in Gates 182.

#### BREADTH REQUIREMENT

You must satisfy the requirements listed in each of the following areas; all courses taken elsewhere must be approved by your adviser on a breadth course waiver form. Do not enter anything in the "Units" column for courses taken elsewhere.

Note: If you are amending an old program sheet, enter **"on file"** in the approval column for courses that have already been approved.

#### Area A: Mathematical and theoretical foundations

Required:	Equivalent elsewhere (course number/title/institution)	Approval	Grade	Units
Probability (CS109, Stat116, CME106, or MS&E220)				
Automata and Complexity (CS154)				
Algorithmic Analysis (CS161)				

#### Choose one of:

Numerical Analysis (CME108 or CME302)				
Logic (CS156, CS157, CS258, or Phil 251)				
Mathematical Methods (CS205A)				

#### Area B: Computer systems

Required:	Equivalent elsewhere (course number/title/institution)	Approval	Grade	Units
Computer Architecture (EE108B or EE282)				

#### Choose two of:

Operating Systems (CS140)				
Compilers (CS143 or CS243)				
Computer Networks (CS144 or EE284)				

#### Area C: AI and applications

Choose two, including one at 200 level	Equivalent elsewhere (course number/title/institution)	Approval	Grade	Units
AI (CS121 or CS221)				
Databases (CS145 or CS245)				
Graphics (CS148 or CS248)				

**TOTAL UNITS USED TO SATISFY BREADTH REQUIREMENT (AREAS A, B, AND C)**

Note: This total may not exceed 21 units.

#### SEMINARS

You must take at least one 500-level CS seminar, or EE 380 or 385A. No more than three units of seminars or 1-2 unit courses may be counted towards the MS degree.

Course number	Title	Grade	Units

**TOTAL SEMINAR UNITS APPLIED TO MSCS**

**DEPTH UNITS FOR THE INDIVIDUALLY DESIGNED SPECIALIZATION**

The courses you submit for your individually designed specialization must total at least 21 units, and must include courses at both the 200 and 300 level. Your proposal should represent a coherent area of study and must be approved by the MSCS program committee. Send your proposal, along with an endorsement from a CS faculty member, to Claire Stager at stager@cs. Your proposal will be reviewed by the MSCS program committee. A message with the decision reached by the committee will be sent to you when they have concluded their review (generally in one week’s time).

**If your proposal is approved**, enter the courses in the table below, obtain your advisor’s signature at the bottom of this form, and return it to Claire in Gates 182:

Course number	Title	Grade	Units
<b>TOTAL SPECIALIZATION UNITS APPLIED TO MSCS (must total at least 21 units)</b>			

**ELECTIVES**

List here any additional courses used to complete the 45-unit requirement for the MSCS degree.

Course number	Title	Grade	Units
<b>TOTAL ELECTIVE UNITS APPLIED TO MSCS</b>			

**TOTAL UNITS APPLIED TO MSCS**

**ADDITIONAL REQUIREMENTS**

- All courses submitted for the MSCS degree must be numbered 100 or greater.
- At most 21 units of introductory courses (CS100-110) or breadth requirements courses may be counted toward your 45 units.
- At least 36 units submitted for the MSCS degree, including all courses taken for your specialization, must be taken for a letter grade.
- The average grade in the courses submitted for the MSCS must be at least a B (3.0 in Stanford’s GPA scale).
- Units previously applied toward BS requirements may not also be counted toward the MSCS.
- You must complete at least 45 graduate units at Stanford before receiving the MSCS degree.

Adviser’s signature: \_\_\_\_\_ Date: \_\_\_\_\_

Department approval (Claire Stager): \_\_\_\_\_ Date: \_\_\_\_\_

FOR DEPARTMENT USE:      UNITS\_\_\_\_\_      CR/NC\_\_\_\_\_      GPA\_\_\_\_\_